

For Research Use Only

# Prohibitin Monoclonal antibody

Catalog Number: 60092-1-Ig **2 Publications**



## Basic Information

<b>Catalog Number:</b> 60092-1-Ig	<b>GenBank Accession Number:</b> BC013401	<b>Purification Method:</b> Caprylic acid/ammonium sulfate precipitation
<b>Size:</b> 150ul , Concentration: 900 µg/ml by Nanodrop and 800 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5245	<b>CloneNo.:</b> 4D3G5
<b>Source:</b> Mouse	<b>Full Name:</b> prohibitin	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 30 kDa	
<b>Immunogen Catalog Number:</b> AG1240	<b>Observed MW:</b> 30 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

IF, WB

### Species Specificity:

human, pig, rat

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : human heart tissue, HeLa cells, human placenta tissue, pig heart tissue, rat heart tissue

**IHC** : human liver tissue, human kidney tissue, human heart tissue

## Background Information

Prohibitin, also known as PHB, a member of the Band-7 family of proteins, is widely distributed in bacteria, plants, yeast, protozoa and mammals and is important in cell proliferation, differentiation and apoptosis (PMID: 20840588). This protein localizes to the inner membrane of mitochondria, where it acts as a chaperone protein, and is also found in the nucleus, where it negatively regulates transcription (PMID: 18558096). Recent study confirmed that the expression and distribution of PHB, which is a nuclear matrix protein, affect the apoptosis of HaCaT cells and its co-localization with specific gene products connected with cell apoptosis (PMID: 24402549).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yating Peng	35378837	Int J Chron Obstruct Pulmon Dis	WB
Li-Li Ma	29100316	Oncotarget	IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

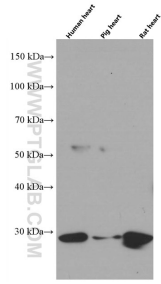
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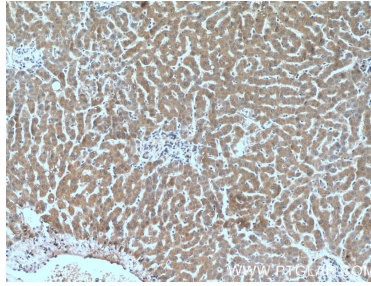
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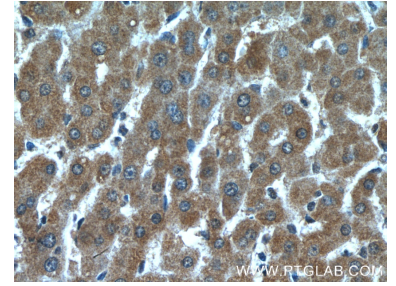
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 60092-1-Ig (Prohibitin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 60092-1-Ig (Prohibitin antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 60092-1-Ig (Prohibitin antibody) at dilution of 1:200 (under 40x lens).